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THE NORTH AMERICAN GENERA OF CALYPTRATE MUSCIDÆ. Paper II.*

BY C. H. TYLER TOWNSEND.

This second paper is intended to furnish an available synopsis of the North American genera in the family Tachinidæ in the strictest sense. It includes many new genera recently described, and all the older genera so far identified from America north of Panama. These number altogether 121 genera, not including several others which have been accredited to this country, but are omitted from the synopsis. It is well to state that I am personally familiar with 90 out of the 121 genera included. The following notes may be taken as a preface to the table:

Cryptopalpus is included on Bigot's authority. He refers one species here.

Heteropterina is not included. Bigot has referred a N. American species to this genus; it probably belongs to *Plagia*.

Ceromasia.—I quote v. d. Wulp as authority for the statement that Bigot's species of *Ceromasia* belong to *Masicera*.

Macronychia is included; I think I have species which should be referred to this genus.

Pachyophthalmus is not included. *P. aurifrons* Twms. (Trans. Am. Ent. Soc. xviii) belongs to *Sarcomacronychia*.

Senotainia is included as a possibly tenable genus.

Chætolysa.—Bigot's species should be united with *Nemoræa* (v. d. Wulp).

Tricholysa.—Bigot's species of this genus should also be united with *Nemoræa* (v. d. Wulp).

Prosopæa is included. It doubtless occurs in this country.

Eurygaster.—Walker's species probably belong in *Exorista* (v. d. Wulp).

Ræselia is included on authority of Williston.

Viviana.—Bigot's species should be referred to *Myobia* (v. d. Wulp).

Oestrophasia is restricted to forms with the apical cell closed; type, *Oestroph. clausa* B. B. Musc. Schiz. 78, from Colo. The other form, described as *Oestroph. aperta*, l. c. 78, from Brazil, should be separated generically, and may be known as *Euæstrophasia aperta*, the new genus differing from *Oestrophasia* chiefly in the open apical cell.

Stevenia is not included. Bigot's species very probably belong to *Phyto*.

* Paper I was published in Proc. Ent. Soc. Washington, ii, pp. 89-100.

Synoptic table of the North American genera of TACHINIDÆ s. str.

1. Scutellum and abdomen, or at least the abdomen, armed with vigorous and more or less blunt spines (Hystriiinae)..... 2.
 Scutellum and abdomen with the usual bristles (macrochaetæ).....10.
2. Palpi as long as the elongated proboscis when horizontally exerted, extending far beyond epistoma (except in *D. rutiloides*).....**Dejeania** R. D.
 Palpi notably shorter than proboscis (or proboscis not elongated), not extending half way beyond epistoma, sometimes rudimentary or wholly absent.....3.
3. Eyes hairy.....4.
 Eyes bare (or very sparsely hairy).6.
4. Palpi absent**Cryptopalpus** Rdi.
 Palpi well developed5.
5. Sides of face bare; third antennal joint straight on front border.
 Hystricia Mcq.
 Sides of face hairy; third antennal joint convex on front border.
 Pseudohystricia B. & B.
6. Palpi rudimentary or absent.....**Saundersia** Sch.
 Palpi fully developed.....7.
7. Third joint of antennæ but little longer than second.8.
 Third joint always considerably longer than second, linear.....9.
8. Third joint convex on front edge; arista normal.....**Jurinia** R. D.
 Third joint straight on front edge; arista short, atrophied.
 Atropharista Twms.
9. Hind tibiæ ciliate on outside; head not wide and swollen.
 Blepharipeza Mcq.
 Hind tibiæ not ciliate; head very wide and swollen.....**Belvosia** R. D.
10. Apical cell ending on front border of wing, very much or considerably before apex; seldom closed, and never long petiolate* (sometimes short petiolate)11.
 Apical cell ending at apex of wing, or very little before it; or closed and long petiolate70.
11. Facial ridges not ciliate, or at most bristly not more than half way up the face (Tachininae s. str.)12.
 Facial ridges ciliate the greater part of their length from oral margin to base of antennæ, sometimes with very strong bristles† (Phoroceratinae) ...58.
12. Eyes naked‡.....13.
 Eyes hairy (at least in the ♂).....47.
13. Apical cell open14.
 Apical cell closed in margin, sometimes short petiolate.....41.

* If the petiole of apical cell ends well before tip of wing, it should be included here. On the other hand some of the forms here included have the apical cell well open and ending but little before wing tip; these belong principally in *Masicera*, *Exorista*, *Phorocera*, etc.

† The ciliate bristles must be on the facial ridges. The frontal bristles, when these extend down on sides of face to the cheeks, must not be mistaken for them.

‡ The eyes are very faintly hairy in *Meigenia*; almost naked in *Labidigaster*.

14. Third antennal joint shorter than the strongly elongated second.....15.
 Third antennal joint as long as, or longer than the second.....16.
15. Palpi distinct, moderately long. **Echinomyia** Dum.
 Palpi very indistinct, rudimentary..... **Cuphocera** Mcq.
16. Arista 3-jointed, geniculate;* head swollen.....17.
 Arista 2-jointed, or if 3-jointed then never geniculate.....18.
17. Second aristal joint as long as, or longer than last; both sexes with orbital
 bristles..... **Gonia**.
 Second aristal joint considerably or decidedly shorter than last; male without
 orbital bristles, species with facies of *Cnephalia*..... **Pseudogonia**.
18. Hind tibiæ ciliate on the outside..... **Argyrophylax** B. & B.
 Hind tibiæ not ciliate19.
19. Hind cross-vein very oblique, arising opposite or before small cross-vein, and
 ending half way between latter and bend of fourth vein, or nearer to
 small cross-vein.20.
 Hind cross-vein normal, always arising below small cross-vein.....22.
20. Proboscis long, slender, labella scarcely at all developed.
Siphoplusia Twms.
 Proboscis short, stout, labella well developed.....21.
21. Arista geniculate **Goniochaeta** Twms.
 Arista not geniculate **Plagia** Mg.
22. Third antennal joint as long, or at most twice as long as second.....23.
 Third joint more than twice as long as second†.....27.
23. Next to last joint of arista strongly elongate24.
 Next to last joint hardly longer than wide.....25.
24. Head, and especially front, swollen..... **Cnephalia** Rdi.
 Head not particularly swollen..... **Nemochaeta** v. d. W.
25. Antennæ nearly or not quite so long as face, second joint elongate.....26.
 Antennæ much shorter than face, second joint not elongate.....29.
26. Palpi rudimentary or absent.28.
 Palpi well developed27.
27. Vibrissæ inserted well above oral margin; robust, very hairy species.
Tachinomyia Twms.
 Vibrissæ inserted nearly on oral margin; smaller, not hairy species.
28. Cheeks with one or more bristles in front of base of eye.
Tachina Mg. s. Sch.
Trichophora Mcq.
 Cheeks without such bristles..... **Gymnomma** v d. W.
29. Head broad, more or less swollen; frontal bristles all or partly weak.....30.
 Head not swollen, with rather strong frontal bristles..... 33.
30. Frontal bristles alike, weak and short, arista not distinctly jointed; abdomen
 and wings rather short.....31.
 Frontal bristles mostly long and stout, but with some very short and weak
 ones among them; arista distinctly 3-jointed; abdomen and wings longer,
 larger species..... **Megaprosopus** Mcq.
31. Abdomen short conical..... **Miltogramma** Mg.
 Abdomen longer, ovo-conical or oval.....32.

* *Triza*, with the arista bent, not geniculate, does not belong here.

† *Masicera* has the third antennal joint sometimes only twice as long as second.

32. Two rows of frontal bristles, no orbital bristles.

Sarcomacronychia Twns.

Only one row of frontal bristles, orbital bristles present.

Eumacronychia Twns.

- 33 Sides of face bare; arista often bent; third antennal joint nearly round, seed-like **Trixa**.
Sides of face hairy 34.
34. Vibrissæ inserted nearly on oral margin. 35.
Vibrissæ inserted considerably above oral margin. 36.
35. Bristles on sides of face consisting of a well defined row; arista abruptly thickened on basal half. **Laccoprosopa** Twns.
Bristles on sides of face consisting only of several below near eye margin; arista thickened at base, pubescent. **Sarcotachinella** Twns.
36. Front of ♂ about one-third width of head; both sexes with orbital bristles.

Macronychia Rdi.

Front of ♂ one-fifth to one-sixth width of head; ♂; without orbital bristles.

Trioxoclista Twns.

37. Vibrissæ inserted on, or slightly above oral margin; abdomen oval. 38.
Vibrissæ inserted at some distance above oral margin. 39.
38. Second arisal joint elongate **Dacochaeta** Twns.
Second arisal joint not elongate. **Masicera** Mcq.
39. Abdomen conical 40.
Abdomen oval. **Brachycoma** Rdi.
40. Antennæ nearly or quite as long as face; if not quite so long, then the second joint elongate; face extended far below eyes. **Meigenia** R. D.
Antennæ hardly more than half length of face, first two joints short.

Senotainia Mcq.

41. Proboscis elongate, slender, labella more or less distinct. **Aphria** R. D.
Proboscis short, fleshy 42.
42. Second antennal joint not elongate, not more than one-half length of third. 43.
Second antennal joint elongate, only a little shorter than third; apical cell petiolate. **Hesperomyia** B. & B.
43. Front rather strongly horizontally projecting, the face very receding. 44.
Front not horizontally projecting 46.
44. Third antennal joint much developed, ten times length of second, stout.

Hypertrophocera Twns.

- Third joint very much smaller and shorter, apparently compressed 45.
45. Apical cell short petiolate; facial ridges nearly parallel, facial depression narrow; antennæ about one-half length of face, third joint peg-like at apex. **Euthyprosopa** Twns.
Apical cell closed in border; facial ridges more curved, third antennal joint longer, not peg-like at apex. **Neotractocera** Twns.
46. Vibrissæ inserted on oral margin, facial ridges absolutely bare.

Gymnoprosopa Twns.

- Vibrissæ inserted a good distance above oral margin, facial ridges more or less bristly on lower half. **Pseudatractocera** Twns.
47. Apical cell closed 48.
Apical cell open. 49.

48. Apical cell closed in margin; second and third antennal joints about equal in length, vibrissæ inserted considerably above oral margin.

Muscopteryx Twms.

Apical cell petiolate; third antennal joint many times longer than second, vibrissæ inserted on oral margin..... **Lachnomma** Twms.

49. Third antennal joint as long, or at most twice as long as second.....50.
Third joint always more than twice as long as second*.....53.
50. Shining gold-green or blue species **Gymnochaeta** R. D.
Other colored species.....51.
51. Fourth vein with distinct stump of vein at bend; palpi small, rudimentary.

Micropalpus Mcq.

- Fourth vein with at most a wrinkle appearing like a stump.....52.
52. First abdominal segment somewhat shortened; tail unarmed.

Nemoræa R. D.

First segment not shortened; tail of ♀ with forceps-like appendage.

Labidigaster Mcq.

53. Fourth vein with stump of vein at bend..... **Melanophrys** Will.
Fourth vein without stump at bend, at most with a wrinkle.....54.
54. Hind tibiæ ciliate; last tarsal joint of ♀ enlarged, oval. **Masipoda** B. & B.
Hind tibiæ and tarsi normal in both sexes.....55.
55. Vibrissæ inserted at some distance above oral margin, epistoma not prominent **Mystacella** v. d. W.
Vibrissæ inserted on, or very near oral margin.....56.
56. Frontal bristles reaching only to base of antennæ, cheeks usually hairy.

Aporia Mcq.

- Frontal bristles extending below base of antennæ.....57.
57. Eyes only thinly hairy, more distinctly so in ♂.

Hyphantrophaga Twms.

- Eyes very thickly and distinctly hairy in both sexes..... **Exorista** Mg.
58. Eyes naked (very thinly hairy in *Plagiprospherysa*).....61.
Eyes hairy, at least in ♂59.
59. Head more or less swollen (like *Cnephalia*), frontal bristles in double row;
arista thickened its whole length **Distichona** v. d. W.
Head not swollen, frontal bristles in single row; arista thickened not more
than half its length.....60.
60. Vibrissæ inserted well above oral margin..... **Euphorocera** Twms.
Vibrissæ inserted nearly on oral margin..... **Phorocera** R. D.
61. Apical cell closed in margin, petiolate, or exceptionally very narrowly open..63.
Apical cell always open.....62.
62. Hind cross-vein oblique, venation *Plagia*-like.. **Plagiprospherysa** Twms.
Hind cross-vein normal.....66.
63. Sides of face and cheeks narrow; eyes large, extending downward nearly as
far as tips of antennæ64.
Sides of face and cheeks extraordinarily wide; eyes very small in proportion,
hardly extending below middle of head..... **Baumhaueria** Mg.
64. Arista geniculate, second joint elongate.....65.
Arista not geniculate..... **Prosopæa** Rdi.

* In some species of *Mystacella* the third joint is just twice as long.

65. Proboscis long, bristle-like; apical cell rather long petiolate.
Chaetoglossa Twns.
 Proboscis fleshy, short and stout; apical cell short petiolate.
Olenochaeta Twns.
66. Front only a little produced.* fourth vein without stump.....67.
 Front extraordinarily, strongly conically produced; fourth vein with stump,
 abdomen conical **Metopia** Mg.
67. Arista not distinctly jointed, or if so, then proboscis short and stout.....68.
 Arista 3-jointed, often bent, second joint elongate; proboscis elongate,
 slender..... **Aeroglossa** Will.
68. Head and front swollen; abdomen elongate, round.....69.
 Head not swollen; abdomen conical or oval; apical cell ending rather more
 before wing tip..... **Prospherysa** v. d. W.
69. Sides of face bare, or only hairy..... **Frontina** Mg.
 Sides of face with bristles of nearly same strength as those of front (as in
Cnephalia and *Gonia*)..... **Eucnephalia** Twns.
70. Apical cross-vein obliterated, or only a weak spur present, fourth vein where
 it usually bends obsolete† (Roeseliinae)..... 71.
 Apical cross-vein always present and complete.....72.
71. Third antennal joint greatly widened, especially at the truncate tip, trian-
 gular; first two aristal joints elongate..... **Euryceromyia** Twns.
 Third joint normal, basal joints of arista short. **Roeselia** R. D.
72. Apical cell open (Thryptoceratinae)73.
 Apical cell closed, and usually long petiolate (Phytoinae).....95.
73. Eyes naked.....74.
 Eyes hairy.....89.
74. Proboscis bristle-like, widely protruded, twice geniculate, the forward part
 bent back **Siphona** Mg.
 Proboscis not twice geniculate.....75.
75. Arista distinctly 3-jointed, more or less geniculate;‡ one or more of the
 wing veins usually spined its whole length.....76.
 Arista apparently 2-jointed, never geniculate; longitudinal veins not at all,
 or only the third bristly at base.....77.
76. Proboscis slender, sharp at tip, labella not developed; arista strongly genicu-
 late, second joint more than half as long as last... **Ginglymia** Twns.
 Proboscis short, fleshy, labella well developed; second aristal joint but little
 elongate **Thryptocera** Mcq.
77. Face (including sides of face) more or less receding||78.
 Face straight, or scarcely receding.....85.

* The front may be broadened or swollen, but not produced anteriorly.

† According to Schiner, the apical cross-vein is wanting in the European *Thryptocera frontalis*. This form should be separated from *Thryptocera*, and placed in a separate genus among the Roeseliinae.

‡ One European species of *Thryptocera*, according to Schiner, does not have the arista distinctly 3-jointed; but in such event, the bristly wing veins serve to indicate the genus.

|| *Anisia* is said in the generic description to have the face perpendicular, but is included here.

78. Facial ridges (not sides of face) with a row of bristles extending to, or nearly to base of antennæ **Degeeria** Mg.
 Facial ridges without such bristles.....79.
79. Abdomen elongate, cylindrical; frontal bristles not descending below antennæ..... **Polygaster** v. d. W.
 Abdomen not unusually elongate and cylindrical.....80.
80. Wings very long; sides of face minutely short hairy.
Emphanopteryx Twms.
 Wings usually about length of abdomen.....81.
81. Vibrissæ either absent, or hardly longer than the short bristles next them.....82.
 Vibrissæ present, distinct84.
82. Wings without costal spine.....83.
 Wings with costal spine; abdomen transparent, with black spots.
Cenosoma v. d. W.
83. Sides of face bare; second vein close to costa and far removed from third, costa much dilated in ♂ **Phasiopteryx** B. & B.
 Sides of face with a row of hairs; vibrissæ a little stronger than the bristles below them; costa not dilated in ♂, head wide below.
Phasioclista Twms.
84. Abdomen elliptical, conical, or ovate..... **Anisia** v. d. W.
 Abdomen broad, rounded **Sphærina** v. d. W.
85. Third antennal joint many times, and always at least more than three times as long as second.....86.
 Third joint at most three times as long as second, but usually shorter.....87.
86. Proboscis short and fleshy, with large labella..... **Hypostena** Mg.
 Proboscis long and slender, labella very small..... **Siphoclytia** Twms.
87. Front tarsi twice as long as tibiæ, legs strongly elongate..... **Myobia** R. D.
 Front tarsi little longer than tibiæ.....88.
88. Wings as long, or scarcely longer than the elongate-round abdomen; front slightly produced..... **Clytia** R. D.
 Wings considerably longer than the conical, ovate or elongate-round abdomen; front not produced..... **Telothyria** v. d. W.
89. Whole body thickly beset with bristles and hairs, or at least the scutellum and abdomen unusually beset with macrochètæ.....90.
 Not such species.....91.
90. Sides of face bare; apical cross-vein strongly bowed in..... **Lasiona** v. d. W.
 Sides of face bristly; apical cross-vein nearly straight..... **Eulasiona** Twms.
91. Third antennal joint as long as, or scarcely longer than second; arista pubescent, 2-jointed92.
 Third joint at least twice as long as second.....93.
92. Vibrissæ inserted on oral margin; sides of face hairy..... **Macquartia** R. D.
 Vibrissæ inserted far above oral margin; sides of face with several rows of bristly hairs..... **Ennyomma** Twms.
93. Arista not visibly jointed; third antennal joint at least four times as long as second, facial ridges ciliate..... **Didyma** v. d. W.
 Arista distinctly 3-jointed; third antennal joint not more than three times as long as second.....94.
94. Second aristal joint elongate, arista wholly naked..... **Polidea** Mcq.
 Second aristal joint short..... **Myiopharus** B. & B.
95. Eyes naked.....99.
 Eyes hairy (rather indistinctly so in *Atrophopoda*).....96.

96. A row of bristles either on the facial ridges their whole length, or on sides of face very near ridges.....97.
 No such row.....98.
97. Claws and pulvilli of front feet minute.....**Atrophopoda** Twms.
 Claws and pulvilli of front feet as long as others.....**Angiorhina** B. & B.
98. Sides of face bristly; third antennal joint scarcely longer than second.
Loewia Egg.
 Sides of face bare; third joint more than twice as long as second.
Tryphera Mg.
99. Apical cell short petiolate, or closed in margin*.....100.
 Apical cell long petiolate.....114.
100. Face perpendicular, or nearly so† (or its plane nearly parallel with plane of occiput)101.
 Face more or less inclined, either forward or backward..... 104.
101. Second aristal joint elongate, arista more or less geniculate.....103.
 Second aristal joint not elongate 102.
102. Apical cross-vein straight or convex, wings short: proboscis gently curved, dark species**Epigrammia** Twms.
 Apical cross-vein concave, wings longer; proboscis usually strongly curved, light species..... **Drepanoglossa** Twms.
103. Labella distinctly enlarged, proboscis straight below geniculation, only moderately slender.....**Siphophyto** Twms.
 Labella indistinct, proboscis longer and more slender, strongly curved backward at tip**Coronimya** Twms.
104. Third antennal joint short, not more than twice length of second.....105.
 Third joint proportionally very much longer, three or more times length of second.....109.
105. Sides of face with bristles; arista not distinctly jointed.....106.
 Sides of face without bristles; arista 2- or 3-jointed.....107.
106. Cheeks about one-half eye-high; sides of face fringed with a row of bristles.
Clista Mg.
 Cheeks fully two-thirds eye-high; sides of face with some irregularly placed bristles.....**Sarcoclista** Twms.
107. Antennæ inserted below median line of eyes.
Oestrophasia B. & B. emend.
 Antennæ inserted above median line of eyes.....108.
108. Arista 2-jointed; head like *Hyalomyia*, eyes descending very low, epistoma prominent, vibrissæ inserted well above oral margin; antennæ short, second and third joints nearly equal.....**Clistomorpha** Twms.
 Arista 3-jointed; vibrissæ inserted on oral margin, which is not prominent; antennæ nearly as long as face, second joint elongate.
Tachinophyto Twms.
109. Abdomen of ♂ with a large longitudinally-compressed process on underside of second segment.....**Celatoria** Coqll.
 Abdomen normal in both sexes110.

* Some species of *Phyto* may have the apical cell rather short petiolate, but are included in the next division.

† *Myothyrja* may have the face moderately perpendicular, but the epistoma is prominent; it is not included here.

110. Frontal bristles descending on sides of face to lower border of eyes; antennæ elongate.....111.
Frontal bristles descending little if any below base of third antennal joint..... 112.
111. Palpi distinct, developed.....**Ceratomyiella** Twns.
Palpi very small, rudimentary, terminated with a bristle.
Atrophopalpus Twns.
112. Facial ridges ciliate about to lowest frontal bristles.
Pseudomyothyria Twns.
Facial ridges not ciliate, with at most a few bristles below which do not extend half way up face.....113.
113. Epistoma prominent; arista not distinctly jointed...**Myothyria** v. d. W.
Epistoma not prominent; arista 3-jointed..... **Eumyothyria** Twns.
114. Sides of face with some strong bristles below near eye margins.
Rhinophora R. D.
Sides of face either bare below, or clothed with hairs.....115.
115. Third antennal joint scarcely longer than second, or one and a half times as long.....116.
Third joint at least twice as long as second, but usually many times longer.....117.
116. Tegulæ unusually large, wings much longer than the rather short abdomen; hind cross-vein in middle between bend of fourth vein and small cross-vein..... **Leucostoma** Mg.
Tegulæ smaller, wings a little longer than the more elongate abdomen; hind cross-vein usually, but not always nearer to bend of fourth vein than to small cross-vein.....**Phyto** R. D.
117. Front claws and pulvilli minute (as in *Atrophopoda*), arista more or less hairy.....**Vanderwulpia** Twns.
Front claws and pulvilli as long as others.....118.
118. Face carinate, facial ridges bare.....**Euthera** Lw.
Face not carinate, facial ridges usually with bristles extending part way up the face.....119.
119. Third antennal joint three to five times as long as second.....120.
Third joint not more than twice as long as second.....**Cestonia** Rdi.
120. Facial and frontal rows of bristles continuous.....**Scopolia** R. D.
Facial ridges bristly less than half way up.....**Euscopolia** Twns.

For the convenience of the student, the following list of references to the descriptions of the genera is appended :

- Dejeania* Rob. Desv., Myod. 33 (1830); Macq., Dipt. Ex. ii, 3, 32.
Cryptopalpus Rdi., Pr. Dipt. ital. iii (1859).
Hystricia Macq., Dipt. Ex. ii, 3, 43 (1843); Cf. Schin., Dipt. Novara, 331.
Pseudohystricia Br. and Bgst., Musc. Schiz. i, 64 (1889).
Saundersia Schin., Novara Dipt. 333 (1868).
Jurinia R. Desv., Myod. 34 (1830); Mcq., Dipt. Ex. ii, 3, 37.
Atropharista Twns., N. Am. Tachin. iii, Tr. Am. Ent. Soc. xix (1892).
Blepharipeza Macq., Dipt. Ex. ii, 3, 54 (1843).
Belvosia R. Desv., Myod. 103 (1830).
Echinomyia Duméril, Expos. Mét. Nat. (1798); Schin., Dipt. Austr. i, 423.

- Cuphocera* Mcq., Ann. Soc. Ent. Fr. ii, 3, 267 (1845); Schin., Dipt. Austr. i, 427.
Gonia Meig., Illig. Mag. ii, 280 (1803); Schin., Dipt. Austr. i, 441.
Pseudogonia Br. and Bgst., Musc. Schiz. i, 32 (1889).
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Siphoplagia Towns., N. Am. Tach. ii, Tr. Am. Ent. Soc. xviii, 349 (1891).
Goniochæta Towns., N. Am. Tach. ii, Tr. Am. Ent. Soc. xviii, 351 (1891).
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Gymnomma v. d. Wulp, Biol. Centr.-Amer. Dipt. ii, 38 (1888).
Megaprosopus Macq., Dipt. Ex. ii, 3, 240 (1843).
Miltogramma Meig., Illig. Mag. ii, 280 (1803); Schin., Dipt. Austr. i, 505.
Sarcomacronychia Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Eumacronychia Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Trixa Meig., Syst. Besch. iv, 222 (1824); Schin., Dipt. Austr. i, 445.
Laccoprosopa Towns., N. Am. Tach. ii, Tr. Am. Ent. Soc. xviii, 365 (1891).
Sarcotachinella Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Macronychia Rdi., Pr. Dipt. ital. iii, 229 (1859); Schin., Dipt. Austr. i, 501.
Trioxoclista Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Dæochæta Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Masicera Macq., Hist. Nat. Dipt. ii, 118 (1835); Schin., Dipt. Austr. i, 481.
Brachycoma Rdi., Pr. Dipt. ital. iii, 203 (1859).
Meigenia R. Desv., Myod. 198 (1830); Schin., Dipt. Austr. i, 470.
Senotainia Macq., Dipt. Ex. Suppl. i, 167 (1846).
Aphria R. Desv., Myod. 89 (1830); Schin., Dipt. Austr. i, 432.
Hesperomyia Br. and Bgst., Mus. Schiz. i, 46 (1889).
Hypertrophocera Towns., N. Am. Tach. ii, Tr. Am. Ent. Soc. xviii, 360 (1891).
Euthyprosopa Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Neotractocera Towns., N. Am. Tach. iii, Trans. Am. Ent. Soc. xix (1892).
Gymnoprosopa Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Pseudatractocera Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Muscopteryx Towns., N. Am. Tach. vi, Can. Ent. xxiv (1892).
Lachnomma Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Gymnochæta Rob. Desv., Myod. 371 (1830); Schin., Dipt. Austr. i, 430.
Micropalpus Macq., Hist. Nat. Dipt. ii, 80 (1835); Schin., Dipt. Austr. i, 427.
Nemoræa R. Desv., Myod. 71 (1830); Schin., Dipt. Austr. i, 447.
Labidigaster Macq., Dipt. Nord. Fr. 109 (1834); Schin., Dipt. Austr. 436.
Melanophrys Willist., Tr. Am. Ent. Soc. xiii, 305 (1886).
Masipoda Br. and Bgst., Musc. Schiz. i, 94 (1889).
Mystracella v. d. Wulp, Biol. Centr.-Amer. Dipt. ii, 51 (1890).
Aporia Macq., Suppl. i, 168 (1846).
Hyphantrophaga Towns., Psyche vi, (1892).
Exorista Meig., Illig. Mag. ii, 280 (1803); Schin., Dipt. Austr. i, 457.
Distichona v. d. Wulp, Biol. Cent.-Amer. Dipt. ii, 44 (1890).
Euphorocera Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Phorocera R. Desv., Myod. 131 (1830); Schiner, Dipt. Austr. i, 488.
Plagiprospherysa Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).

- Baumhaueria* Meig., Syst. Besch. vii, 251 (1838); Schin., Dipt. Austr. i, 494.
Prosopæa Rdi., Pr. Dipt. ital. iii (1859).
Chætoglossa Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Olenochæta Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Metopia Meig., Illig. Mag. ii, 280 (1803); Schin., Dipt. Austr. i, 498.
Acroglossa Willist., Scudd. Butt. E. U. S. and Can. 1916 (1889).
Prospherysa v. d. Wulp, Biol. Cent.-Amer. Dipt. ii, 116 (1890).
Frontina Meig., Syst. Besch. vii, 247 (1838); Schin., Dipt. Austr. i, 496.
Eucnephalla Towns., N. Am. Tach. vi, Can. Ent. xxiv (1892).
Euryceromyia Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Ræselia R. Desv., Myod. 145 (1830); Schin., Dipt. Austr. i, 516.
Siphona Meig., Illig. Mag. ii, 281 (1803); Schin., Dipt. Austr. i, 520.
Ginglymia Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Thryptocera Macq., Hist. Nat. Dipt. ii, 87 (1835); Schin., Dipt. Austr. i, 517.
Degeeria Meig., Syst. Besch. vii, 249 (1838); Schin., Dipt. Austr. i, 533.
Polygaster v. d. Wulp, Biol. Cent.-Amer. Dipt. ii, 139 (1890).
Emphanopteryx Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Cenosoma v. d. Wulp, Biol. Cent.-Amer. Dipt. ii, 166 (1890).
Phasipteryx Br. and Bgst., Musc. Schiz. i, 78 (1889).
Phasioclista Towns., N. Am. Tach. ii, Tr. Am. Ent. Soc. xviii, 369 (1891).
Anisia v. d. Wulp, Biol. Cent.-Amer. Dipt. ii, 186 (1890).
Sphærina v. d. Wulp, Biol. Cent.-Amer. Dipt. ii, 205 (1890).
Hypostena Meig., Syst. Besch. vii, 239 (1838); Schin., Dipt. Austr. i, 537.
Siphoclytia Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Myobia R. Desv., Myod. 99 (1830); Schin., Dipt. Austr. i, 513.
Clytia R. Desv., Myod. 287 (1830); Schin., Dipt. Austr. i, 523.
Telothyria v. d. Wulp, Biol. Cent.-Amer. Dipt. ii, 167 (1890).
Lasiona v. d. Wulp, Biol. Cent.-Amer. ii, 127 (1890).
Eulasiona Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Macquartia R. Desv., Myod. 204 (1830); Schin., Dipt. Austr. i, 528.
Ennyomma Towns., N. Am. Tach. ii, Tr. Am. Ent. Soc. xviii, 371 (1891).
Didyma v. d. Wulp, Biol. Cent.-Amer. Dipt. ii, 156 (1890).
Polidea Macq., Ann. Soc. Ent. Fr. ii, 6, 92 (1848); Schin., Dipt. Austr. i, 526.
Myiopharus Br. and Bgst., Musc. Schiz. i, 93 (1889).
Atrophopoda Towns., N. Am. Tach. ii, Trans. Am. Ent. Soc. xviii, 373 (1891).
Angiorhina Br. and Bgst., Mus. Schiz. i, 95 (1889).
Loewia Egger., Zool.-bot. Ges. vi, 386 (1856); Schin., Dipt. Austr. i, 527.
Tryphera Meig., Syst. Besch. vii, 264 (1838); Schin., Dipt. Austr. i, 525.
Epigrimyia Towns., N. Am. Tach. ii, Tr. Am. Ent. Soc. xviii, 375 (1891).
Drepanoglossa Towns., N. Am. Tach. ii, Tr. Am. Ent. Soc. xviii, 377 (1891).
Siphophyto Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Coronimyia Towns., N. Am. Tach., iii, Tr. Am. Ent. Soc. xix (1892).
Clista Meig., Syst. Besch. vii, 208 (1838); Schin., Dipt. Austr. i, 541.
Sarcoclista Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Oestrophasia Br. and Bgst., Musc. Schiz. i, 77 (1889), emend.
Clistomorpha Towns., N. Am. Tach. v, Can. Ent. xxiv, (1892).
Tachinophyto Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Celatoria Coquill., Ins. Life, ii, 235 (1890).
Ceratomyiella Towns., N. Am. Tach. ii, Tr. Am. Ent. Soc. xviii, 379 (1891).
Atrophopalpus Towns., N. Am. Tach. iv, Ent. News iii (1892).

Pseudomyothyria Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Myothyria v. d. Wulp, Biol. Cent.-Amer. Dipt. ii, 208 (1890).
Eumyothyria Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).
Rhinophora R. Desv., Myod. 258 (1830); Schin., Dipt. Austr. i, 545.
Leucostoma Meig., Illig. Mag. ii, 280 (1803); Schin., Dipt. Austr. i, 542.
Phyto R. Desv., Myod. 218 (1830); Schin., Dipt. Austr. i, 547.
Vanderwulpia Towns., N. Am. Tach. ii, Tr. Am. Ent. Soc. xviii, 381 (1891).
Euthera H. Loew, Centur. vii, 85 (1866).
Cestonia Rdi., Pr. Dipt. ital. iii (1859).
Scopolia R. Desv., Myod. 268 (1830); Schin., Dipt. Austr. i, 539.
Euscopolia Towns., N. Am. Tach. iii, Tr. Am. Ent. Soc. xix (1892).

It may be well to note the following synonymies:

Saundersia: syn. *Epalpus* Rdi.
Nemochæta: syn. ?*Tachinodes* Br. and Bgst., Musc. Schiz. 65 (1889).
Meigenia: syn. *Spilosia* Rdi., Pr. Dipt. ital. iii, 111 (1859). On authority of v. d. Wulp (Biol. Cent.-Amer.).
Exorista: syn. ?*Eurygaster* Macq., Hist. Nat. Dipt. ii, 115 (1835); Dipt. Ex. ii, 3. 57. On authority of v. d. Wulp (l. c.).
Phasiapteryx: syn. *Neoptera* v. d. W., Biol. Cent.-Amer.; Dipt. ii 165 (1890). On authority of v. d. Wulp (l. c.).
Phyto: syn. *Ptilocera* R. Desv., Myod. 221 (1830).

THE NORTH AMERICAN GENERA OF NEMOCEROUS DIPTERA.

BY C. H. TYLER TOWNSEND.

Principally for my own convenience in the identification of species, I some time ago drew up synopses of the North American genera of Nemocera. Dr. Williston's book on the families and genera of N. American Diptera omits the genera of Nemocera and Muscidæ *sens. lat.* I have already published, above, generic synopses of the Calyptrate Muscidæ, and the following tables of the Nemocera, as supplying a hiatus that has perhaps been felt by others as well as myself, are herewith published.

These tables should not be trusted without reference to the generic descriptions. They contain all the genera given in the Osten Sacken Catalogue, and all the new genera since described from America north of Panama. Some European genera, which are omitted because they have not been recorded from this country, may yet be found to occur here. The tables have been prepared from descriptions almost solely, and are offered only as a basis for generic determinations. They have, however, been largely verified by actual